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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/735,257	12/12/2003	Heon Jung	ASIAP001	ASIAP001 9792	
21912	7590 07/21/2006		EXAMINER		
VAN PELT, YI & JAMES LLP			LANGEL, WAYNE A		
10050 N. FOO CUPERTINO,	THILL BLVD #200 CA 95014		ART UNIT PAPER NUMBER		
,			1754		
			DATE MAILED: 07/21/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Astion Opping	10/735,257	JUNG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Wayne Langel	1754				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on	•					
	action is non-final.					
· <u>-</u>	,—					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	,					
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.	WI HOLL COLISIDE ALION.					
6)⊠ Claim(s) <u>1-14</u> is/are rejected.						
7) Claim(s) is/are rejected.						
	s alastian requirement					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>12 December 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<u> </u>						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	te				
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)   Notice of Informal Patent Application (PTO-152)   Paper No(s)/Mail Date   Other:						

Art Unit: 1754

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hershkowitz et al '138 in view of Anumakonda et al, further in view of Zeng et al. Hershkowitz et al '138 discloses a CPOX process wherein a gaseous premix is heated electrically and then passed to a catalyst comprising a noble metal on a metal monolith. (See the paragragh bridging columns 9 and 10.) The differences between the process disclosed by Hershkowitz et al '138, and that recited in applicants' claims, are that Hershkowitz et al '138 does not specifically disclose that the noble metal should be washcoated on the metal monolith, and that the feed gas mixture should be preheated by the hot product gas stream in a heat exchanger. It would be obvious from Anumakonda et al to employ a catalyst in the process of Hershkowitz et al '138 wherein the noble metal is washcoated onto the metal monolith, since Anumakonda et al teach at col. 3, lines 26-40 that a CPOX catalyst may be a metal supported on a metal monolith, and Hershkowitz et al '138 teaches ar col. 9, lines 66 and 67 that the catalytically active metal may be supported on suitable carrier materials well-known in the art. It would be further obvious from Zeng et al to preheat the feed gas mixture by the hot product gas stream in a heat exchanger, since Hershkowitz et al '138 discloses at col. 9, lines 52-54 that the feed may be preheated by use of hot gas, and Zeng et al.

Application/Control Number: 10/735,257

Art Unit: 1754

teach in col. 2, lines 52-59 that heat formed during the oxidation step may be used to preheat incoming feed streams, by way of heat exchange means.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 1, it is indefinite as to whether the feedstock would require the presence of all the recited feedstocks, or whether it embraces the presence of only one of them. In claims 4 and 8, respectively, it is indefinite as to what would constitute "high surface" and "high temperature", since these are relative terms.

The other references are made of record for disclosing CPOX processes.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne Langel whose telephone number is 571-272-1353. The examiner can normally be reached on Monday through Friday, 8 am - 3:30 pm Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/735,257 Page 4

Art Unit: 1754

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Wayne A Jargel
Wayne Langel
Primary Examiner
Art Unit 1754